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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/678,931	10/03/2003	Robert P. McCollum	13174.42US11	1210
23552 7590 10/09/2007 MERCHANT & GOULD PC		EXAMINER		
P.O. BOX 290	3	,	THOMPSON, CAMIE S	
MINNEAPOLIS, MN 55402-0903			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			10/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/678,931	MCCOLLUM ET AL.		
		Examiner	Art Unit		
		Camie S. Thompson	1774		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin iiil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on <u>American</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dienositi	on of Claims	•			
5)□ 6)⊠ 7)□	Claim(s) 27,28,32-41 and 43-49 is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 27-28, 32-41 and 43-49 is/are rejected Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
10)[]	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	epted or b) objected to by the lidrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachmen	t(s)				
2)  Notic 3)  Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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#### **DETAILED ACTION**

- 1. Applicant's amendment and accompanying remarks filed July 11, 2007 are acknowledged.
- 2. Examiner acknowledges amended 27-28, 32-34 and 37-41.
- 3. Examiner acknowledges cancelled claims 29-31 and 42.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 27-28, 32-36 and 43-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over El Bouhnini et al., U.S. Patent Number 4,242,406.

El Bouhnini discloses a structural laminate that can be used as a sink or tub wherein the laminate is comprised of four layers (see column 1, lines 5-15 and lines 42-54). The reference discloses that the first layer is an exterior layer and comprised of acrylic and has a thickness of from about 15 to 25 mil (column 2, lines 15-35). Additionally, the reference discloses a second layer comprising an organic resin capable of curing at room temperature such as acrylic (see column 2, lines 41-55). It is disclosed in column 5; lines 59-68 that the third layer comprise an organic resin. The fourth layer in the reference is disclosed as a fiber-reinforced layer wherein the

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reinforcing fibers are glass fibers (see column 6, lines 30-43). It is disclosed in column 5, lines 40-41 that polyurethane can be used in the reinforcing layer. The reference does not disclose the use of an acrylic for the third layer. However, the reference does disclose that the third layer is an organic resin. Acrylic resin is a good bonding agent. Therefore, it would have been obvious to one of ordinary skill in the art to recognize that acrylic resin could be used in the third layer of the El Bouhnini reference in order promote adhesion.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 37-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over El Bouhnini et al., U.s. Patent Number 4,242,406 in view of Domine et al., U.S. Pre Grant Publication 2004/0161623.

El Bouhnini discloses a structural laminate that can be used as a sink or tub wherein the laminate is comprised of four layers (see column 1, lines 5-15 and lines 42-54). The reference discloses that the first layer is an exterior layer and comprised of acrylic and has a thickness of from about 15 to 25 mil (column 2, lines 15-35). Additionally, the reference discloses a second layer comprising an acrylic (see column 2, lines 41-55). It is disclosed in column 5; lines 59-68 that the third layer comprises an organic resin. The fourth layer in the reference is disclosed as a fiber-reinforced layer wherein the reinforcing fibers are glass fibers (see column 6, lines 30-43).

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It is disclosed in column 5, lines 40-41 that polyurethane can be used in the reinforcing layer. The reference does not disclose the use of an acrylic for the third layer. However, the reference does disclose that the third layer is an organic resin. Acrylic resin is a good bonding agent. Therefore, it would have been obvious to one of ordinary skill in the art to recognize that acrylic resin could be used in the third layer of the El Bouhnini reference in order promote adhesion. El Bouhnini does not disclose that the structural laminate is a vehicle component or boat. Domine discloses a four-layered composite that can be used in vehicle components or a boat (see paragraphs 0135-1036). Composites are used in various materials. Composite material can form shaped articles. Therefore, it would have been obvious to one of ordinary skill in the art that the composite or structural laminate of the El Bouhnini reference can be used in an automotive component or a boat.

#### Response to Arguments

Applicant's arguments filed July 11, 2007 have been fully considered but they are not persuasive. Applicant argues that the structure of the El Bouhnini reference is different from the structure of the present claims. Applicant argues that the single finish coat layer of El Bouhnini is different from that the exterior acrylic thermoplastic film of the present claims. It is disclosed in column 2, lines 15-32 that the exterior layer can be a film of acrylic resin or ABS resin as required by the structure in the present claims. Applicant argues that the present structure uses three thermoplastic layers a single fiber reinforced layer. El Bouhnini has three thermoplastic layers: (1) exterior layer of acrylic resin film (2) second layer comprising a thermoplastic resin such as polyester (3) a bonding layer wherein the resin can be the same resin as used in the second layer and a fiber reinforced layer wherein the reinforcing material is gypsum. The

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reference has the same structure as required in the present claims. Applicant argues that the first layer in the El Bouhnini reference is a gel coat layer. The reference discloses in column 2 that the exterior layer is an acrylic film as required by the present claims.

Applicant argues that the Domine reference is not combinable with the El Bouhnini reference.

Domine is a multi-layered composite and is analogous art for El Bouhnini. Domine was brought in to show that multi-layered composites could be used in various materials such as vehicle or boat components. Applicant argues that the composites in Domine reference are non-structural. It is disclosed in paragraph 0135 of the reference that the composites can be used in automotive and boat components. The rejections are maintained.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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application/Control Number: 10/0/6,23

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano, can be reached at (571) 272-1398. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MILTON I. CANO SUPERVISORY PATENT EXAMINER

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